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# NOTICE OF ALLOWANCE AND FEE(S) DUE

27765

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09/25/2008

NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116 EXAMINER

WILSON, YOLANDA L

ART UNIT PAPER NUMBER

2113

DATE MAILED: 09/25/2008

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/605,520 10/06/2003 Han-Wen Hsu MTKP0040USA 2519
TITLE OF INVENTION: FIRMWARE STRUCTURING METHOD AND RELATED APPARATUS FOR UNIFYING HANDLING OF EXECUTION

RESPONSES OF SUBROUTINES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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NORTH AME P.O. BOX 506 MERRIFIELD,	RICA INTELLEC	72008 CTUAL PROPERT	Y CORPORATI S a t	GEN States iddre ranss	by certify that this Postal Service wi	Fee(s	of Mailing or Transn c) Transmittal is being ficient postage for first ISSUE FEE address a l) 273-2885, on the da	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
			[					(Depositor's name)
								(Signature)
			L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/605,520 TITLE OF INVENTION RESPONSES OF SUBR		CTURING METHOD A	Han-Wen Hsu ND RELATED APPA	RAT	US FOR UNIFYI		ITKP0040USA IANDLING OF EXEC	2519 CUTION
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Е	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740	12/26/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
WILSON, Y	OLANDA L	2113	714-048000					
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a					
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e pat an as	ent. If an assigned ssignment. and STATE OR CO	OUNT	RY)	cument has been filed for
a. The following fee(s):  lssue Fee  Publication Fee (N Advance Order - +	b. Payment of Fee(s): (I A check is enclose Payment by credit The Director is her	Pleas ed. card	e first reapply any . Form PTO-2038 authorized to charg	y prev	iously paid issue fee s ched. equired fee(s), any def	hown above)		
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	us. See 37 CFR 1.27.					TITY status. See 37 CF	R 1.27(g)(2).
nterest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	an ul	с аррисан; а гедія	icicu a	morney of agent; of the	assignee of other party in
Authorized Signature					Date			
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n application. Confiden ubmitting the completed his form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is depending upon the in eChief Information Of	estin Idivid Ticer	mated to take 12 m dual case. Any con . U.S. Patent and T	inutes nment radem	to complete, including s on the amount of time tark Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/605,520	10/605,520 10/06/2003 Han-Wen Hsu 27765 7590 09/25/2008		MTKP0040USA	2519
27765			EXAMINER	
NORTH AMER	ICA INTELLECTU	WILSON, YOLANDA L		
P.O. BOX 506		ART UNIT	PAPER NUMBER	
MERRIFIELD, VA 22116			2113	
			DATE MAILED: 09/25/2008	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 536 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 536 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/605,520	HSU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Yolanda L. Wilson	2113	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>	
1. 🛮 This communication is responsive to the amendment recei	<u>ved on 06/18/2008</u> .		
2. ☑ The allowed claim(s) is/are <u>1-10,12-23 and 25-28</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority ur         <ul> <li>a)</li></ul></li></ol>	been received.  been received in Application No cuments have been received in this i	national stage application from the	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	et be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.	
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5.	atent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ☐ Examiner's Amendn		
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	 8. ⊠ Examiner's Stateme	nt of Reasons for Allowance	
	9.		

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### **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-10,12-23,25-28 are allowed.

#### Reasons for Allowance

- 2. The following is an examiner's statement of reasons for allowance: The primary reason for the allowance of claims 1-10,12,13,27 is the inclusion of the following limitations: 'a plurality of lower-level subroutines, wherein after the processor executes various lower-level subroutines, the hardware circuit will be controlled to execute various corresponding operations, and each the lower-level subroutine will record operation results, which come from the hardware circuit executing corresponding operations, in an error code; wherein each operation result corresponds to a recovery operation; a plurality of higher-level subroutines, each higher-level subroutine used for calling at least a lower-level subroutine to control the hardware circuit to execute operations corresponding to the lower-level subroutine called by the higher-level subroutine when the processor executes the higher-level subroutine; after the processor executes the higher-level subroutine, executing the error-handling subroutine to allow the processor to control the hardware circuit to execute recovery operations according to the operation results corresponding to the lower-level subroutine called by the higherlevel subroutine'.
- 3. The primary reason for the allowance of claims 14-23,25,26,28 is the inclusion of the following limitations: 'a plurality of lower-level subroutines, wherein after the processor executes various lower-level subroutines, the hardware circuit will be

controlled to execute various corresponding operations, and each the lower-level subroutine will record operation results, which come from the hardware circuit executing corresponding operations, in an error code; wherein each operation result corresponds to a recovery operation; a plurality of higher-level subroutines, each higher-level subroutine used for calling at least a lower-level subroutine to control the hardware circuit to execute operations corresponding to the lower-level subroutine called by the higher-level subroutine when the processor executes the higher-level subroutine; after the processor executes the higher-level subroutine error-handling subroutine to allow the processor to control the hardware circuit to execute recovery operations according to the operation results corresponding to the lower-level subroutine called by the higher-level subroutine'.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda L. Wilson whose telephone number is (571) 272-3653. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yolanda L Wilson/ Primary Examiner, Art Unit 2113